762 - \*\*\*\* | 1785g0103 type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039 4. Manifest Tracking Number .cORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone UU5/844 WASTE MANIFEST Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) 501 Brunner Street SAME Peru, IL 61354 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number US Dulk Transport Inc PAD987347515 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number EO - Winois 110000666206 16435 South Center Avenue Harvey, 11, 60426 77094596-7040 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) НМ Quantity Wt /Vol. Туре RO NASO77 HAZARDOUS WASTE, SOLID, N.O.S. (LEAD 0006 0000 GENERATOR CADMIIM, S. PG III (DOGG, DOOR) 14, Special Handling Instructions and Additional Information 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name Year rewall AVAL NTL International Shipments Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature / VahlKam Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space \_\_ Quantity Residue Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Day Month 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Dav

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

779500138 wint or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number 11.0087154555 WASTE MANIFEST (800) 483-9718 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) Fint Wills Resources 901 Brunner Street SAME Peru, IL 61354 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number **US Bulk Transport Inc** PAD987347515 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number Mayots 19435 South Center Avenue Parver, IL 60426 110000866206 Facility's Phone: (709) 595-7040 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 9a. 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM Quantity Wt./Vol Туре RO NAGOTZ HAZARDOUS WASTE, SOLID, N.O.S., (LEAD 0009 GENERATOR CADMIUM), 9, PG III (DOOG, DOOG) 20 14. Special Handling Instructions and Additional Information 1 AISADOSCIA BROSITA GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name Month nmidt 16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. TR ANSPORTER 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Year 1/ENLE11 Transporter 2 Printed/Typed Name Signature 18. Discrepancy 18a. Discrepancy Indication Space □ Quantity Residue □ Partial Rejection Full Rejection Manifest Reference Number: FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone:

Signature

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19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

18c. Signature of Alternate Facility (or Generator)

DESIGNATED

Printed/Typed Name

DESIGNATED FACILITY TO GENERATOR

Year

Day

Day

Year

Form Approved. OMB No. 2050-0039 or type. (Form designed for use on elite (12-pitch) typewriter.) AIFORM HAZARDOUS 1. Generator ID Number 1. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone 11.0087254555 (800) 483-3718 WASTE MANIFEST Ub / Generator's Site Address (if different than mailing address) Generator's Name and Mailing Address 501 Brunner Street SAME Peru, IL 61354 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number **US Balk Transport Inc** PAD987347518 7: Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number EO - Minois 11.0000666206 16435 South Center Avenue Harvey, IL 60426 77091596-7040 Facility's Phone: 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a. 13. Waste Codes and Packing Group (if any)) НМ Quantity Wt./Vol. Туре RO. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., CLEAD CADMIUM, 9, PG III (DOGG, DOGS) 0009 GENERATOR 14. Special Handling Instructions and Additional Information L'Alequoent. 紅色の乗171 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name Salvinid MILLINGEL F 16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. TR ANSPORTER 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name L'NDEI Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Quantity Partial Rejection Residue Full Rejection Manifest Reference Number: DESIGNATED FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Dav Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year EUNIARD # STANG

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DESIGNATED FACILITY TO GENERATOR

770500135 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 UNIFORM HAZARDOUS 1. Generator ID Number 3. Emergency Response Phone 4. Manifest Tracking Number 2. Page 1 of 11.0087154555 (800) 483-3718 N.4.4 WASTE MANIFEST Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address filis Resourc 501 Brunner Street Peru, N. 61354 SAME Generator's Phone: (61.5) 224.5454 6. Transporter 1 Company Name U.S. EPA ID Number **US Bulk Transport inc** PAD987347515 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number 1LD000666206 19435 South Center Avenue Harvey, IL 60426 77081596-7040 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a. 13. Waste Codes НМ and Packing Group (if any)) Quantity Wt./Vol No. Туре RO NABOTY, HAZARIXOUS WASTE, SOLID, N.O.S., GEAD 0000 GENERATOR CADMIUM), 9, PS III (D006, D008) 14. Special Handling Instructions and Additional Information l.AlsecosEIL EFR#171 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Name MICHAEL Schmid 16. International Shipments Ľ Import to U.S. Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S. TR ANSPORTER 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature 112 h Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space \_\_\_ Type Partial Rejection Full Rejection Quantity Residue Manifest Reference Number: DESIGNATED FACILITY 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Signature

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Printed/Typed Name

DESIGNATED FACILITY TO GENERATOR

Month

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DESIGNATED FACILITY TO GENERATOR

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8. Designated Facility Name and State Address  FO : Ribinarias  16.9 CD Scriptist Several Anterinate  12.0 CD CD CB CB CD CB  13. Week Codes  14. Special Handling Instructions and Address information  15. CEMERATOR SOFTEROR'S CERTIFICATION: Heavily deciden that the contents of this consignment are fully and sociately described above by the proof aligning name, and are classifed, practicage.  15. CEMERATOR SOFTEROR'S CERTIFICATION: Heavily deciden that the collects of this consignment are fully and sociately described above by the proof aligning name, and are classifed, practicage.  16. International instability decidence of the contents of this consignment content in the allocated preventions and an aligning instructions and Address in all magnetic in proof condition for transport according to applicate instructional and national governmental regulatories. If export alignment are fully and sociately described above by the proof aligning name, and are classifed, practicaged.  15. CEMERATOR SOFTEROR'S CERTIFICATION: Heavily deciden that the collects of this consignment are fully and sociately described above by the proof aligning name, and are classifed, practicaged. To restrict a few substantiants and all an in all magnetic in proof conditions for transport according to applicate instructional and national governmental regulatories. If export alignment and all an the Primary  Exports.   Contriby that the contents of this consignment conform to the international and national governmental regulatories. If export alignment are fully and sociated proof of (c) (c) if an an annual quantity generatory of (c) (c) if an an annual quantity generatory of (c) (c) if an an annual quantity generatory of (c) (c) if an an annual quantity generatory of (c) (c) if an an annual quantity generatory of (c) (c) if an an annual quantity generatory of (c) (c) if an an annual quantity generatory of (c) (c) if an annual quantity generatory of (c) (c) if an annual quantity generatory of (c) (c) if an annual quantity generatory of (c) (c)		US Bulk Transport inc														
EASTOR SORTED CONTROL (Container Average   10 Container   11 Total   12 Unit   13 Wester Codes   15 Month   15																
Half and Rexing Group (if any)  1. TRO. NA3-077. HAZARDOUS WASTE SOLID. N.O.S. (LEAD)  2. CADMILVAS, 9. PG IN (170-06, D0-08)  1. Sound Handling Instructions and Additional Information  1. B. Lik ROUSETTA. EFFORM SCENTFICATION: Thereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and bibble-placearded, and are half respects in proper condition for transport according to applicable international and national governmental regulations. If apport shipping name, and are classified, packaged, marked and bibble-placearded, and are half respects in proper condition for transport according to applicable international and national governmental regulations. If apport shipping name, and are classified, packaged, marked and bibble-placearded, and are half respects in proper and and the proper shipping name, and are classified, packaged, marked and bibble-placearded, and are half respects in proper and a lamb the Primary Exporter Learly for the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and bibble-placearded, and are half respects in proper shipping name, and are classified, packaged, marked and bibble-placearded, and are half respects in proper shipping name, and are classified, packaged, marked and bibble-placearded, and are half respects of the proper shipping name, and are classified, packaged, marked and bibble-placearded placearded.  1. But a small quantity government are fully and accurately of (i) (if an a small quantity government are fully and accurately of (ii) (if an a small quantity government are fully and accurately of (ii) (if an a small quantity government are fully and accurately of (ii) (if an a small quantity government are fully and accurately of (ii) (ii) (ii) (ii) (ii) (iii)		Beech Tries 1980a	FO - Minois 16435 South Cer Parver, IL 60426	ne Arenn i								8662	0 8			
2.  14. Special Handling Instructions and Additional Information 1.3.12 90 01 EL11. EDGE 17.1  15. GENERATOR'SIOFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and socurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Export shipment and I am the Primary Export shipment and I am the Primary Export shipment of Consent.  1 certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.  2 Generator's (Officing's Printed Typed Name  3 Import to U.S. Date leaving U.S.  1 Transporter signature (for exports orb):  3 Transporter signature (for exports orb):  4 Transporter signature (for exports orb):  4 Transporter signature (for exports orb):  5 Transporter 3 Printed Typed Name  5 Signature  7 Signature  7 Signature  8 Signature  9 Partial Rejection  Full Rejection  Full Rejection  Full Rejection					r Shipping Name, H	azard Class, ID Numb	per,			_		13. \	Waste Codes			
4.  14. Special Handing Instructions and Additional Information  1. A 12 400 3 ET 1. EFF # 17 1  15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and beliede/placarded, and are in all respects is proper condition for transport according to eppicable international and national governmental regulations. If export shipment and I am the Primary Exporter, Lectify that the vaste minimization statement identified in 40 CFR 262.27(a) (ff I am a large quantity generator) or (b) (ff I am a small quantity generator) is true.  1. Certify that the vaste minimization statement identified in 40 CFR 262.27(a) (ff I am a large quantity generator) or (b) (ff I am a small quantity generator) is true.  1. Transporter algorithm of the deployed Name Signature Month Day Year Month Day Year Signature Month Day Year Month Day Year Signature Month Day Year Month Day Month Day	-RATOR -	3665		. HAZARDO J. PS III (DO	95 WASTE. 95, DOOR)	50M). N.O.S	l. (PAL)			22	**************************************	0006		માટે કર્ક લોક લોક લોક કરે જ છે. જો જો છે. જે		
14. Special Handling Instructions and Additional Information   1. A 1 > 0.0 S E T 1. EFRORY'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exports, contrify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.    Temporator's/Oriero's Printed/Typed Name	GEN GEN		2.								·			reeneeseeneene		
14. Special Handling Instructions and Additional Information  1. & 12 @ 00 @ SET1.				·		•								·*************************************		
1. Al 2 4003ETL EFRO#171  15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.  I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.  Generator's/Offeror's Printed/Typed Name    16. International Shipments				,		4 3		-						antos en acceso		
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16. International Shipments   Import to U.S.   Export from U.S.   Date leaving U.S.:			marked and labeled/placard Exporter, I certify that the or I certify that the waste mining	ded, and are in all in contents of this cons mization statement	espects in proper co signment conform to	ondition for transport a the terms of the attac	according to applical ched EPA Acknowled arge quantity genera	ble international and r dgment of Consent. ator) or (b) (if I am a s	ational governn	nental regulations.	ipping name If export sh	ipment and I a	m the Primar	у		
17. Transporter Acknowledgment of Receipt of Materials   Transporter 1 Printed/Typed Name   Signature   Month   Day   Year			Michael	CSch	<u> </u>	-		nille	50	<i>H</i>		Į į		113		
18. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection  Manifest Reference Number:				s only):		i	Export from U.					-				
18. Discrepancy Indication Space   Quantity   Type   Residue   Partial Rejection   Full Rejection   Manifest Reference Number:	PORTE		sporter 1 Printed/Typed Nam		1/6-16		Signa	ture		L EE		Mont	h Day	Year		
18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection  Manifest Reference Number:	TR ANS		sporter 2 Printed/Typed Nam	ne			Signa	ture	Grane de 1			Mont	h Day	Year		
				ce Quan	tity	Туре	- 1	10		Partial Reje	ection		Full Reject	tion		
Facility's Phone:  18c. Signature of Alternate Facility (or Generator)  Month Day Yea  19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)	ACILITY -			tor)				Manifest Referen	ce Number:	U.S. EPA ID N	umber					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)	SNATED F.	18c. S	Signature of Alternate Facilit					1				Mon	th Day	Year		
3. 4.	DESIC	19. Ha	azardous Waste Report Mar	nagement Method	Codes (i.e., codes fo	r hazardous waste tre	·	nd recycling systems)	2+,	4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a  Printed/Typed Name  Signature  Month Day Year  EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.								11 1		ì						

DESIGNATED FACILITY TO GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST  5. Generator's Name and Mailing Address  Generator's Site Address (if different than mailing address)  Generator's Phone:  6. Transporter 1 Company Name  7. Transporter 2 Company Name  8. Designated Facility Name and Site Address  Facility's Phone:  9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, And Packing Group (if any))  1. Generator ID Number, Address  Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)  4. Manifest Tracking Number Generator's Site Address (if different than mailing address)	47545
UNIFORM HAZARDOUS WASTE MANIFEST  5. Generator's Name and Mailing Address  First 1995  Generator's Name and Mailing Address  Generator's Site Address (if different than mailing address)  Generator's Phone:  6. Transporter 1 Company Name  U.S. EPA ID Number  7. Transporter 2 Company Name  U.S. EPA ID Number  8. Designated Facility Name and Site Address  U.S. EPA ID Number  1. South 1995  Facility's Phone:  9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if anyl))  1. DO May 2001  1. Total 12. Unit Quantity Wtt./vol.	47545 66206
5. Generator's Name and Mailing Address  First Hammer Street  First Hammer Street  First Hammer Street  First Hammer Street  Generator's Phone:  U.S. EPA ID Number  U.S. EPA ID Number  T. Transporter 2 Company Name  U.S. EPA ID Number  8. Designated Facility Name and Site Address  Facility's Phone:  9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))  1. Total Quantity  Wt./Vol.	6206
Generator's Phone: 6. Transporter 1 Company Name  7. Transporter 2 Company Name  8. Designated Facility Name and Site Address  Facility's Phone:  9a. 9b, U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))  1. Oo Type Quantity	6206
Generator's Phone: 6. Transporter 1 Company Name 7. Transporter 2 Company Name U.S. EPA ID Number  8. Designated Facility Name and Site Address U.S. EPA ID Number  8. Designated Facility Name and Site Address U.S. EPA ID Number  Facility's Phone:  9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))  1. Oontainers No. Type Quantity Wt./Vol.	6206
6. Transporter 1 Company Name  7. Transporter 2 Company Name  8. Designated Facility Name and Site Address  U.S. EPA ID Number  8. Designated Facility Name and Site Address  U.S. EPA ID Number  9. Separation of the Address  10. Containers of the Address of the	6206
7. Transporter 2 Company Name  U.S. EPA ID Number  8. Designated Facility Name and Site Address  U.S. EPA ID Number  U.S. EPA ID Number  U.S. EPA ID Number  10. Containers  11. Total  12. Unit Wt./Vol.  11. Total Quantity  13. Total Quantity  14. Total Quantity  15. Total Quantity  16. Type Quantity  17. Total Quantity  18. Designated Facility Name and Site Address  U.S. EPA ID Number  19. Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	6206
8. Designated Facility Name and Site Address  U.S. EPA ID Number  8. Designated Facility Name and Site Address  U.S. EPA ID Number  Facility's Phone:  9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))  1. Dot Market Packing Site Address  U.S. EPA ID Number  10. Containers  11. Total 12. Unit Wt./Vol.	
8. Designated Facility Name and Site Address U.S. EPA ID Number  1. 4.35 South Center Average Facility's Phone:  9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))  1. 500 Ma. Type Quantity Wt./Vol.	
Facility's Phone:  9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))  1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
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15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, an marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipme Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.  I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.  Generator's/Offeror's Printed/Typed Name	nd are classified, packaged, ent and I am the Primary Month Day Year
Transporter Signature (for exports only):   Export from U.S.   Port of entry/exit:   Date leaving U.S.:	
Transporter Acknowledgment of Receipt of Materials  Transporter 1 Printed/Typed Name Signature	Month Day Year
Transporter 1 Printed/Typed Name Signature	11/ 120 1/3
Transporter 2 Printed/Typed Name Signature	Month Day Year
18. Discrepancy	
18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection	Full Rejection
Manifest Reference Number:	
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LLC EDAID Number	
LLC EDAID Number	Month Day Year
LLC EDAID Number	Month Day Year
LLC EDAID Number	Month Day Year
18b. Alternate Facility (or Generator)  18c. Signature of Alternate Facility (or Generator)  U.S. EPA ID Number  U.S. EPA ID Number	Month Day Year
LLC EDAID Number	
18b. Alternate Facility (or Generator)  18b. Alternate Facility (or Generator)  18c. Signature of Alternate Facility (or Generator)  19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)  1. 2. 3. 4.	Month Day Year

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		944	nerator's Name and Mai	# QB5 .				Generato		ss (if different th	an mailing addre	ess)			
		Genei	rator's Phone:	1224-5461				USF-130	6%						
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			signated Facility Name a	enter Avenus	à					** 2	U.S. EPA ID		3662	18 6	
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ACILIT											0.0. EI / (ID ) (I	umber			
DESIGNATED FACILITY			s Phone: gnature of Alternate Facil	ity (or Generator)							<u> </u>		Mont	th Day	Year
ESIGN	_	. Haza	ardous Waste Report Ma	anagement Method (		hazardous waste treatm		and recycli	ng systems)		T:	-			
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			ignated Facility Owner or Typed Name	r Operator: Certificat	ion of receipt of hazar	rdous materials covered	by the manife Signa		s noted in Iten	n 18a	at the state of th	and the second	Mont	h Day	Year
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DESIGNATED FACILITY TO GENERATOR



MANAGEMENT OF CHANGE FORM (REFER TO PROCEDURE EHS-I-006 FOR EXPLANATION OF THIS FORM)

PROCESS UNIT/AREA: <u>Utilities / Boi</u> ORIGINATOR: <u>L. Brockman / J. Cacci</u>				3/2013		
SECTION	A - TECHNICAL BASIS	FOR PROPOSED O	CHANGE			
Purpose and Technical Basis:	Route PEP filter backflu Process wa <b>∉</b> ter required			sewer branch.		
<b>Description:</b> Attach additional paper if necessary	Dig trench and place ne north to manhole 3B. So drain away from broken	aw cut floor in boiler	house to divert exi	sting floor trench		
Impact of change On Environmental Health / Safety:	Abandoning sewer line teliminate a source of co					
SECTION B - DOCUMI	ENTATION - Attach approp	oriate documentation ill	ustrating proposed ch	nanges		
PSM Documentation  MSDS Information  Training/Communication  Quality Issues  Customer Impact  Alarm Response Tables	□ Inspections, Testing □ CHEMGEMS Specif □ Energy Control Plan □ Floor Plans □ Mechanical Integrity □ Electrical Schematic □ Loop DWGS □ JSA's	S Specifications  Trol Plans  D P&ID's  PFD's  D LDAR  Integrity DWGS  Site/Plot Plan  Check  Electrical Single Lines				
	nel Needing To Be Infor					
☐ Operations ☐ Production Facilitators ☐ Mechanics/Welders ☐ Electricians	☐ I/E Technicians ☐ Engineering ☐ Contractor(s) ☐ Office Personne		Community Regulatory Entiti Corporate Other	ies		
SECTION C - Is Change Perr			- Is Change Tem	porary ?		
YES Proposed Project Start Date 10/07/2013 Proposed Project Completion Date 11/30/2013		YES NO	From:			
SECTION E - Is Change Eme		rned To Original Service	e://_			
Yes		-				
NO Start:		Manager/Designee				
2000 1000 200 W	/. Mgr. /Designee		o:			
(if requested) Mgr./De  H&S Mgr/Designee  Approval Received By:		14	t Managers Approval:	Date		
Signature	*Note:	*Note: Temporary MOCAs may be extended up to 6 months at a time				

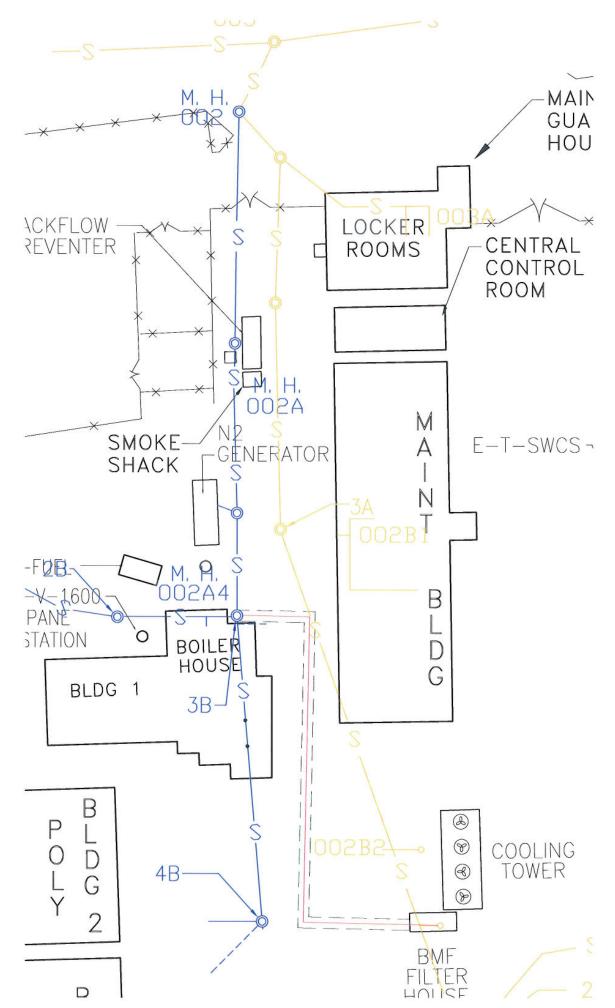
SECTION F - DESIGN SAFETY REVIEW			
PHA. Does the proposed change require a PHA? (i.e. What-if/Checklist, Hazop, Revalidation, Review) If yes indicate type of PHA in Action to be Taken section.  PSSR. Does the proposed change require a Pre-Start-up Safety Review (PSSR)? See EHS-I-067 for Requirements. Mandatory if change involves DCS Interface.	□YES		⊠no
1. RELIEF AND BLOWDOWN		0.000	
Does the Proposed Change:		YES	NO
Introduce or alter any potential cause of over/under pressurizing of the system?			$\boxtimes$
2. In any way affect existing equipment installed to prevent over/under pressurization?			$\boxtimes$
3. Introduce or alter any potential cause of raising/lowering the system temperature?			$\boxtimes$
4. Introduce a risk of creating/reducing vacuum in the system?			$\boxtimes$
5. Have any critical relief devices been identified for verification of proper rating and installation?			$\boxtimes$
2. AREA CLASSIFICATION			
Does the Proposed Change:		YES	NO
Introduce or alter the storage of flammable materials?			$\boxtimes$
2. Introduce or alter the location of potential leaks of flammable materials?			$\boxtimes$
Introduce new or alter existing electrical equipment?			$\boxtimes$
4. Affect area ventilation?			
Has the established building electrical classification been changed?			$\square$
3. SAFETY CONSIDERATIONS			
Does the Proposed Change:		YES	NO
Require any additional safety equipment or layers of protection?			$\boxtimes$
Alter or affect existing safety equipment or means of egress?			$\boxtimes$
3. Require changes to the function or independence of existing equipment or layers of protection?			$\boxtimes$
Alter or affect critical safety instrumented functions (SIF's)?			$\boxtimes$
5. Alter the noise level in the surrounding area?			$\boxtimes$
Increase the potential for exposure to any chemicals?		Ш	$\boxtimes$
7. Introduce a new or previously unused chemical/raw material?		Ц	$\boxtimes$
8. Affect de-energization? (able to lock-out, drain materials)		Ц	
Create any ergonomic concerns?		Ц	$\boxtimes$
10. Affect the Battery Limit Valves (BLV)?			$\boxtimes$
11. Affect the overall security of the facility?		Ц	$\boxtimes$
<ul> <li>12. Does this increase the risk of potential impact to plant personnel (employees and contractors)?</li> <li>13. Does the proposed change affect facility siting relative to both people and equipment in any of the following si temporary changes, before startup after a permanent change, or before startup after temporary change has removed/closed/returned to original condition?</li> </ul>			$\boxtimes$
14. If the proposed change affects replacement or demolition of piping or conduit, will the entire run be identified a	and		$\bowtie$
clearly marked prior to work, to ensure safe work activity?  15. Affect the safe transport of hazardous material? For ex., introducing a new hazardous material for transport of	r		
changing the method of transportation of the hazardous material.		Ш	
4. ENVIRONMENTAL AND QUALITY CONSIDERATIONS	<u> </u>		
Does the Proposed Change:		YES	NO
Alter the composition or amount of a process water?			$\boxtimes$
2. Increase the emissions of any regulated pollutant?			$\boxtimes$
3. Require a new or modified operating/construction permit?			$\boxtimes$
4. Affect the control of the process?			$\boxtimes$
5. Affect the composition or physical properties of the final product?			$\boxtimes$
6. Impact any Pentane/Styrene components in the Leak Detection and Repair (LDAR) Program?			$\boxtimes$
7. Increase risk of off-site residential & environmental receptors?			$\boxtimes$
8. Introduce new materials/chemicals to the site?		$\Box$	$\boxtimes$
Does an evaluation of chemical compatibility need to be conducted?			$\boxtimes$
10. Involve decommissioning/demolition of equipment or structures?			$\boxtimes$
11. If answered YES to question 10, do NESHAP or decontamination requirements apply? **			
12. Will this change require portable engines to be brought on to FHR property?			$\bowtie$
** Consult with Environmental Engineer for completion of this question			

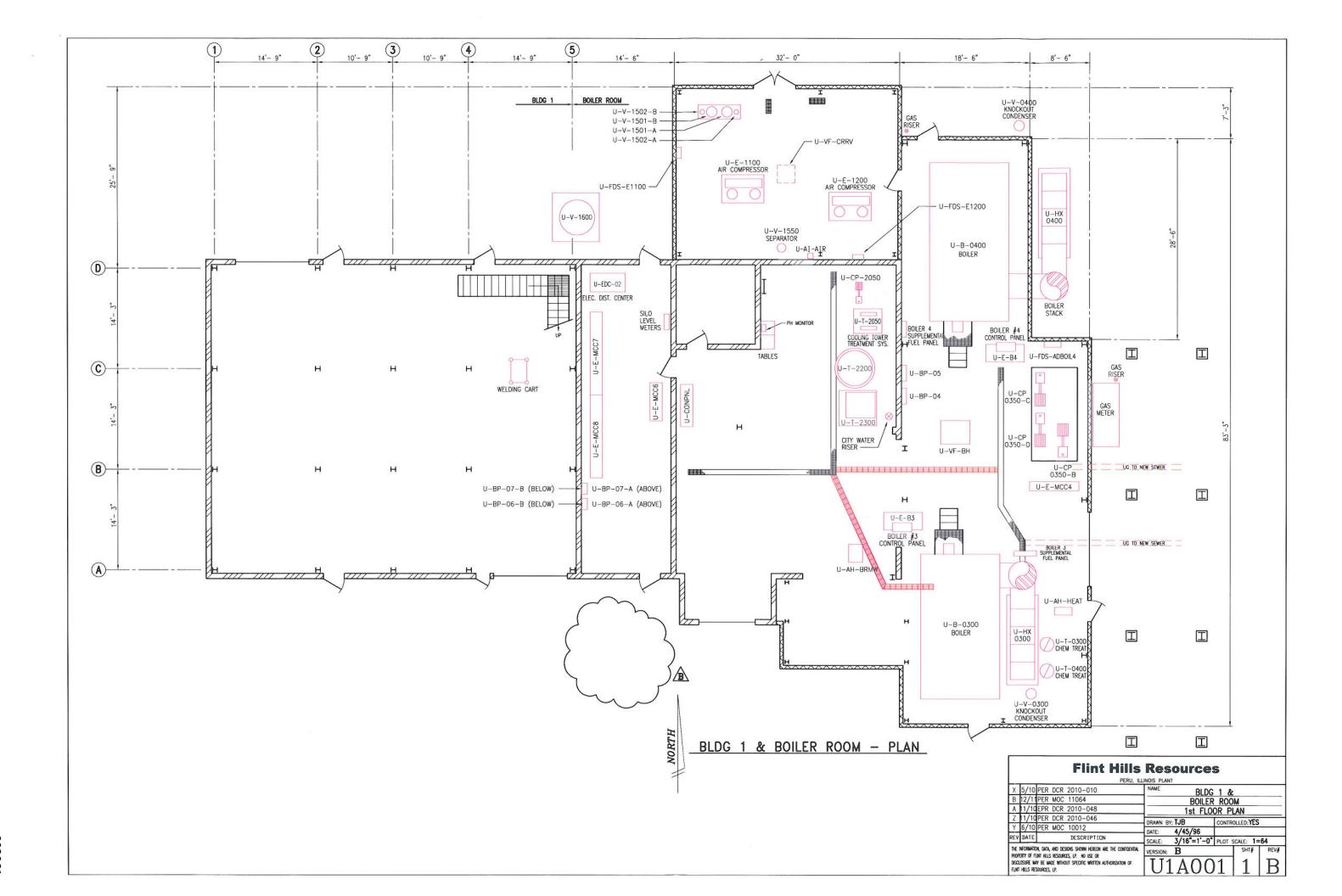
SECTION F - DESIGN SAFETY REVIEW cont.		
5. OPERATION AND DESIGN		
Does the Proposed Change:	YES	NO
Affect the process or equipment upstream/downstream of the change?		$\boxtimes$
2. Affect access to process or equipment/controls for personnel?		$\boxtimes$
3. Introduce any new or affect existing interlocks or alarms systems?		$\boxtimes$
4. Affect manpower or qualified personnel?		$\boxtimes$
5. Affect the loads/strengths of existing foundations, structures, vessels, or pipe racks?		$\boxtimes$
6. Impact requirements of existing or proposed piping supports?		$\boxtimes$
(Needs to be adequately designed for expected stresses due to pressure and thermal loadings.)	2000	9 <u></u>
7. Alter the DCS/Software logic of process operations?		$\boxtimes$
Affect process chemistry? (reactivity/compatibility)		$\boxtimes$
9. Affect maximum intended inventory, that would require updating maximum inventory tables?		
10. Affect safe upper/lower limits for such items as temperature, process flows or compositions?		$\boxtimes$
11. Affect material/energy balances?		$\boxtimes$
12. Affect plant utility resources? (i.e. steam, water, electricity, etc.)		$\boxtimes$
13. Affect equipment with heat-up/cool-down cycling requiring bolt retightening after start-up?		
14. Is an exception/revision to design codes or standards (CHEM-GEMS, etc.) required?		$\boxtimes$
SECTION G - AFFECTS ON PROCEDURES, TRAINING, AND DOCUMENTA	ATION	
Will the Proposed Change:	YES	NO
Introduce new or impact existing operational procedures? *		$\boxtimes$
Introduce new or impact existing maintenance procedures? *		$\boxtimes$
3. Add or Remove equipment/instrumentation? (Contact ETA to assign Equipment/Instrumentation Location Numbers. If equipment/Instrumentation is being added, MI Applicability Checklist MNT-F-161 shall be completed by MOC originator, and approval form(s) sent to the MI		
coordinator.)  4. Revise equipment preventative maintenance/ inspections, job plans, and/or frequencies?		$\boxtimes$
5. Require additional training for operational or maintenance personnel?		$\boxtimes$
(requires completion of Leaning and Development Job Aid addendum A))		
6. Require additional notification for operational or maintenance personnel?		X 1CS
7. Require updating controlled drawings? *  (PFD'S, LDAR, P&ID's, Floor Plans, Electrical Single Lines, Loop Drawings/Electrical Schematics, MCC arrangement, MI Iso Drawings)	$\boxtimes$	
8. Require updating equipment files?		$\boxtimes$
(Engineering, Maintenance, Manufacturers Inspect/Test results)	-	
9. Require a spare parts list and inventory to be developed?		$\boxtimes$
10. Require major project spare equipment to be turned over to maintenance?		$\boxtimes$
11. Require equipment labeling in the field?		$\boxtimes$
12. Require updating of Alarm Response Tables? *		$\boxtimes$
13. Require a new/modification of existing energy control plans? *		$\boxtimes$
14. Cause any PSM/RMP applicability issues?		$\boxtimes$
15. Cause a change in PSM/RMP program level?		$\boxtimes$
16. Will this change have any effect on the overall plant facility siting issues?		
17. Increase or decrease the impact contour for worst-case scenario by a factor of two or more?		$\boxtimes$
18. Will this MOC supersede /interfere with any other Temporary/Emergency/Permanent MOC's?	$\boxtimes$	
19. Is there a need to update the EPS-I-004, Chemical Compatibility Matrix?		$\boxtimes$
20. Is a Layer of Protection Analysis ( LOPA) study required?		
21. Will this affect the Interlock Matrix? 22. Require updating of electrical energy consumption spreadsheet? Update required for any MCC, CB panel or bus bar connection additions or alterations. 23. Will this change impact Proprietary Technology including product, process, equipment, technical data, or other trade secret information licensed to FHR by third parties" If yes, contact the Proprietary Technology Coordinator.  * NOTE: Refer to Engineering Equipment Location Database for a list of affected documents,		
sorted by Location Number		

	List the action(s) to be taken to resolve any i		
tem No.	Action To Be Taken	Responsible Party	Target Completion Date
G-7	Update drawings (floor plans/plot plan)	Grant	1.31.14
G-18	Supresede temp MOC# 152529	L. Brockman	11/30/2013
P)			

	MOC APPROVAL	FORM					
Originator: L.Brockman MOC No. 153629							
MOC Pa	ket Completeness	Verification Review					
Title/Position	Ver	fication Review Signa	itures	Date			
Drafting Tech, or Designee	Trusc	00		10-3/13			
MI Coordinator, or Designee	llan	orteraryun		10-3-13			
Maintenance Tech from appropriate area	Jond	Dull		10.3.13			
Operator from affected area	Vic C	artin		10-3-13			
Area Training Contact, or Designee	74.	1.1.22	-	10/4/13			
	Signatures required Prior To Imple	mentation of MOC.					
Title/Position	Authoria	ring Signatures		Date			
Area Manager, or Designee							
(Operations Representative Assignee:							
)	7.,	0		, ,			
	muche	& Shew	_	10/4/13			
Engineering /Maintenance Manager or Designee	Pull.	7		6/4/13			
(Electrical Engineering Review:							
Health and Safety Manager or Designee	Mary Stein	Prach		10/4/13			
(PSM Coordinator Review	111 19/14						
Operations Manager or Designee	Tunky	C Sh		10/4/13			
Environment Manager or Designee	WPCS	selt		10/3/2013			
	Plant Managers I		<del></del>				
Title/Position	as requested by any of the A	uthorizing signers) Signature		Date			
	Keview	Signature		Date			
Plant Manager or Designee	/EDIELO ATION OF THE	20 01 001122					
By signing below:  1. The Originator of this MOC confirms that all action i 2. The Engineering/Maintenance Manager has		that equipment/documentation		set to start up.			
MOC closure requires the On MOC Originator:	ginators Signature, and t	nat of the Engineering/Mai	ntenance Manag	ger Date:			
acceptable and a second acceptable acceptabl							
Engineering/ Maintenance Manager:		4, 151/20		Date:			
MANAGEM	ENT OF CHANGE -	CLOSURE CHECKL	.IST				

This Form <u>MUST BE</u> completed by the Engineering/Maintenance Manager, and attached to MOC  Prior to MOC Being Closed By ETA
Originator: Luke Brockman MOC No. 153629
1. What Type of Management of Change?
Permanent MOC
Emergency MOC
Returned to Original Service?
YES NO
Temporary MOC
Returned to Original Service?
YES NO
2. PHA. completed. (HAZOP, Safety Review, Independent Review)
YES
NO
N/A
3. Documentation included in file or referenced, which verifies affected change has been communicated to all effected parties?
YES
NO
N/A
4. Documentation illustrating changes included in MOC package? (marked-up drawings, etc.)
YES
NO
N/A
5. Referenced Drawings Updated?
YES
NO
N/A
6. All applicable documentation has been updated to reflect changes?
YES
NO
N/A
7. All training has been completed.
YES
NO
N/A
'Management of Change' Audited By:
Title:
Signature: Date:







Thursday, October 31, 2013

Michael Schmidt Flint Hills Resources

501 Brunner Street Peru, IL 61354

TEL: (815) 224-5451

FAX: NA

RE: Waste Pile Analysis Peru, IL

PAS WO:

13J0481

Prairie Analytical Systems, Inc. received 14 sample(s) on 10/22/2013 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Michael D. Brophy

Project Manager

Certifications:

NELAP/NELAC - IL #100323

LABORATORY RESULTS

Client:

Flint Hills Resources

10/22/13 12:05

Project:

Waste Pile Analysis Peru, IL

Lab Order: 13J0481

Client Sample ID: **Collection Date:** 

Lab ID: 13J0481-01

Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS									
*Mercury	U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 12:47	SW 6020A	JTC
*Selenium	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 12:47	SW 6020A	JTC
*Silver	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 12:47	SW 6020A	JTC
TCLP Metals by ICP									
*Arsenic	U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 20:31	SW 6010B	JHN
*Barium	0.692	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:31	SW 6010B	JHN
*Cadmium	0.533	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:31	SW 6010B	JHN
*Chromium	U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:31	SW 6010B	JHN
*Lead	59.0	0.500		mg/L	100	10/24/13 10:22	10/26/13 11:16	SW 6010B	JHN

Client Sample ID:

2

Lab ID: 13J0481-02

Date Analyzed

**Collection Date:** 

Analyses

10/22/13 12:10

Result

Matrix: Solid

Date Prepared

TCLP Metals by ICP-MS								
*Mercury	U	0.000600	mg/L	3	10/24/13 10:22	10/25/13 18:55	SW 6020A	JTC
*Selenium	U	0.0150	mg/L	3	10/24/13 10:22	10/25/13 18:55	SW 6020A	JTC
*Silver	U	0.0150	mg/L	3	10/24/13 10:22	10/25/13 18:55	SW 6020A	JTC
TCLP Metals by ICP								
*Arsenic	U	0.0100	mg/L	1	10/24/13 10:22	10/25/13 20:36	SW 6010B	JHN
*Barium	0.305	0.00500	mg/L	1	10/24/13 10:22	10/25/13 20:36	SW 6010B	JHN
*Cadmium	0.0234	0.00500	mg/L	1	10/24/13 10:22	10/25/13 20:36	SW 6010B	JHN
*Chromium	U	0.00500	mg/L	1	10/24/13 10:22	10/25/13 20:36	SW 6010B	JHN
*Lead	0.0147	0.00500	mg/L	1	10/24/13 10:22	10/25/13 20:36	SW 6010B	JHN

Units

DF

Limit Qual

Client Sample ID:

3

Lab ID: 13J0481-03

<b>Collection Date:</b>	10/22/13 12:12						Matrix: So	lid		
Analyses	****	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS										
*Mercury		U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 19:03	SW 6020A	JTC
*Selenium		U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:03	SW 6020A	JTC
*Silver		U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:03	SW 6020A	JTC
TCLP Metals by ICP										
*Arsenic		U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 20:41	SW 6010B	JHN
*Barium		0.669	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:41	SW 6010B	JHN
*Cadmium		2.81	0.0500		mg/L	10	10/24/13 10:22	10/26/13 11:26	SW 6010B	JHN
*Chromium		U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:41	SW 6010B	JHN
*Lead		41.8	0.500		mg/L	100	10/24/13 10:22	10/26/13 11:21	SW 6010B	JHN

Method Analyst

LABORATORY RESULTS

Client:

Flint Hills Resources

Project:

Waste Pile Analysis Peru, IL

Lab Order: 13J0481

Client Sample ID:

4

Lab ID: 13J0481-04

Collection Date:

10/22/13 12:15

Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS									
*Mercury	U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 19:11	SW 6020A	JTC
*Selenium	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:11	SW 6020A	JTC
*Silver	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:11	SW 6020A	JTC
TCLP Metals by ICP									
*Arsenic	U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 20:46	SW 6010B	JHN
*Barium	0.307	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:46	SW 6010B	JHN
*Cadmium	0.816	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:46	SW 6010B	JHN
*Chromium	U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:46	SW 6010B	JHN
*Lead	64.2	0.500		mg/L	100	10/24/13 10:22	10/26/13 11:31	SW 6010B	JHN

Client Sample ID: Collection Date:

3

10/22/13 12:19

Lab ID: 13J0481-05

Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS									
*Mercury	U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 19:19	SW 6020A	JTC
*Selenium	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:19	SW 6020A	JTC
*Silver	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:19	SW 6020A	JTC
TCLP Metals by ICP									
*Arsenic	U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 20:51	SW 6010B	JHN
*Barium	0.250	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:51	SW 6010B	JHN
*Cadmium	0.583	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:51	SW 6010B	JHN
*Chromium	U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:51	SW 6010B	JHN
*Lead	123	5.00		mg/L	1000	10/24/13 10:22	10/26/13 11:36	SW 6010B	JHN

Client Sample ID:

6

Collection Date:

10/22/13 12:23

**Lab ID:** 13J0481-06

Matrix: Solid

Concetion Date.	10/22/15 12.25							na .		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS										
*Mercury		U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 19:27	SW 6020A	JTC
*Selenium		U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:27	SW 6020A	JTC
*Silver		U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:27	SW 6020A	JTC
TCLP Metals by ICP										
*Arsenic		U	0.0100		mg/L	i	10/24/13 10:22	10/25/13 20:56	SW 6010B	JHN
*Barium		0.358	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:56	SW 6010B	JHN
*Cadmium		0.310	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:56	SW 6010B	JHN
*Chromium		U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 20:56	SW 6010B	JHN
*Lead		6.90	0.0500		mg/L	10	10/24/13 10:22	10/26/13 11:41	SW 6010B	JHN

LABORATORY RESULTS

Client:

Flint Hills Resources

10/22/13 12:28

Project:

**Collection Date:** 

Waste Pile Analysis Peru, IL

Lab Order: 13J0481

Client Sample ID:

Lab ID: 13J0481-07

Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS									
*Mercury	U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 19:35	SW 6020A	JTC
*Selenium	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:35	SW 6020A	JTC
*Silver	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 19:35	SW 6020A	JTC
TCLP Metals by ICP									
*Arsenic	U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 21:01	SW 6010B	JHN
*Barium	0.275	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:01	SW 6010B	JHN
*Cadmium	0.154	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:01	SW 6010B	JHN
*Chromium	U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:01	SW 6010B	JHN
*Lead	0.125	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:01	SW 6010B	JHN

Client Sample ID: **Collection Date:** 

8

10/22/13 12:32

**Lab ID:** 13J0481-08

Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS									
*Mercury	U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 20:07	SW 6020A	JTC
*Selenium	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:07	SW 6020A	JTC
*Silver	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:07	SW 6020A	JTC
TCLP Metals by ICP									
*Arsenic	U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 21:21	SW 6010B	JHN
*Barium	0.266	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:21	SW 6010B	JHN
*Cadmium	1.10	0.0500		mg/L	10	10/24/13 10:22	10/26/13 11:51	SW 6010B	JHN
*Chromium	U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:21	SW 6010B	JHN
*Lead	100	1.00		mg/L	200	10/24/13 10:22	10/26/13 12:49	SW 6010B	JHN

Client Sample ID:

9

Collection Date:

10/22/13 12:38

Lab ID: 13J0481-09

Matrix: Solid

Conection Date:	10/22/13 12.36						Mailix. 30	IIu		
Analyses		Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS										
*Mercury		U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 20:15	SW 6020A	JTC
*Selenium		U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:15	SW 6020A	JTC
*Silver		U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:15	SW 6020A	JTC
TCLP Metals by ICP										
*Arsenic		U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 21:26	SW 6010B	JHN
*Barium		0.352	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:26	SW 6010B	JHN
*Cadmium		0.430	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:26	SW 6010B	JHN
*Chromium		U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:26	SW 6010B	JHN
*Lead		31.0	0.500		mg/L	100	10/24/13 10:22	10/26/13 11:56	SW 6010B	JHN

LABORATORY RESULTS

Client:

Flint Hills Resources

10/22/13 12:45

Project: Client Sample ID:

**Collection Date:** 

Waste Pile Analysis Peru, IL

Lab Order: 13J0481

Lab ID: 13J0481-10

Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS									
*Mercury	U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 20:23	SW 6020A	JTC
*Selenium	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:23	SW 6020A	JTC
*Silver	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:23	SW 6020A	JTC
TCLP Metals by ICP									
*Arsenic	U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 21:31	SW 6010B	JHN
*Barium	0.299	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:31	SW 6010B	JHN
*Cadmium	0.0980	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:31	SW 6010B	JHN
*Chromium	0.00509	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:31	SW 6010B	JHN
*Lead	0.134	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:31	SW 6010B	JHN

Client Sample ID: **Collection Date:** 

11

10/22/13 12:50

**Lab ID:** 13J0481-11

Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS									
*Mercury	U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 20:31	SW 6020A	JTC
*Selenium	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:31	SW 6020A	JTC
*Silver	U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:31	SW 6020A	JTC
TCLP Metals by ICP									
*Arsenic	. U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 21:36	SW 6010B	JHN
*Barium	0.233	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:36	SW 6010B	JHN
*Cadmium	0.433	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:36	SW 6010B	JHN
*Chromium	U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:36	SW 6010B	JHN
*Lead	50.6	0.500		mg/L	100	10/24/13 10:22	10/26/13 12:01	SW 6010B	JHN

Client Sample ID: **Collection Date:** 

12

10/22/13 12:55

Lab ID: 13J0481-12

Matrix: Solid

Analyses	Result	Limit	Qual Units	DF	Date Prepared	Date Analyzed	Method	Analyst
TCLP Metals by ICP-MS								
*Mercury	U	0.000600	mg/L	3	10/24/13 10:22	10/25/13 20:39	SW 6020A	JTC
*Selenium	U	0.0150	mg/L	3	10/24/13 10:22	10/25/13 20:39	SW 6020A	JTC
*Silver	U	0.0150	mg/L	3	10/24/13 10:22	10/25/13 20:39	SW 6020A	JTC
TCLP Metals by ICP								
*Arsenic	U	0.0100	mg/L	1	10/24/13 10:22	10/25/13 21:41	SW 6010B	JHN
*Barium	0.364	0.00500	mg/L	1	10/24/13 10:22	10/25/13 21:41	SW 6010B	JHN
*Cadmium	0.503	0.00500	mg/L	1	10/24/13 10:22	10/25/13 21:41	SW 6010B	JHN
*Chromium	U	0.00500	mg/L	1	10/24/13 10:22	10/25/13 21:41	SW 6010B	JHN
*Lead	24.5	0.500	mg/L	100	10/24/13 10:22	10/26/13 12:21	SW 6010B	JHN

LABORATORY RESULTS

Client:

Flint Hills Resources

Project: Client Sample ID: Waste Pile Analysis Peru, IL

Lab Order: 13J0481

Lab ID: 13J0481-13

**Collection Date:** 

10/22/13 13:00

Matrix: Solid

Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
U	0.000600		mg/L	3	10/24/13 10:22	10/25/13 20:47	SW 6020A	JTC
U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:47	SW 6020A	JTC
U	0.0150		mg/L	3	10/24/13 10:22	10/25/13 20:47	SW 6020A	JTC
U	0.0100		mg/L	1	10/24/13 10:22	10/25/13 21:46	SW 6010B	JHN
0.460	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:46	SW 6010B	JHN
0.197	0.00500		mg/L	l	10/24/13 10:22	10/25/13 21:46	SW 6010B	JHN
U	0.00500		mg/L	1	10/24/13 10:22	10/25/13 21:46	SW 6010B	JHN
5.62	0.0500		mg/L	10	10/24/13 10:22	10/26/13 12:26	SW 6010B	JHN
	U U U 0.460 0.197 U	U 0.000600 U 0.0150 U 0.0150 U 0.0100 0.460 0.00500 0.197 0.00500 U 0.00500	U 0.000600 U 0.0150 U 0.0150  U 0.0100 0.460 0.00500 0.197 0.00500 U 0.00500	U 0.000600 mg/L U 0.0150 mg/L U 0.0150 mg/L U 0.0100 mg/L  0.460 0.00500 mg/L 0.197 0.00500 mg/L U 0.00500 mg/L	U 0.000600 mg/L 3 U 0.0150 mg/L 3 U 0.0150 mg/L 3 U 0.0150 mg/L 3  U 0.0100 mg/L 1 0.460 0.00500 mg/L 1 0.197 0.00500 mg/L 1 U 0.00500 mg/L 1 U 0.00500 mg/L 1	U 0.00600 mg/L 3 10/24/13 10:22 U 0.0150 mg/L 3 10/24/13 10:22 U 0.0150 mg/L 3 10/24/13 10:22 U 0.0150 mg/L 1 10/24/13 10:22  U 0.0100 mg/L 1 10/24/13 10:22  0.460 0.00500 mg/L 1 10/24/13 10:22  0.197 0.00500 mg/L 1 10/24/13 10:22 U 0.00500 mg/L 1 10/24/13 10:22 U 0.00500 mg/L 1 10/24/13 10:22	U 0.000600 mg/L 3 10/24/13 10:22 10/25/13 20:47 U 0.0150 mg/L 3 10/24/13 10:22 10/25/13 20:47 U 0.0150 mg/L 3 10/24/13 10:22 10/25/13 20:47  U 0.0100 mg/L 1 10/24/13 10:22 10/25/13 21:46 0.460 0.00500 mg/L 1 10/24/13 10:22 10/25/13 21:46 0.197 0.00500 mg/L 1 10/24/13 10:22 10/25/13 21:46 U 0.00500 mg/L 1 10/24/13 10:22 10/25/13 21:46	U 0.00600 mg/L 3 10/24/13 10:22 10/25/13 20:47 SW 6020A U 0.0150 mg/L 3 10/24/13 10:22 10/25/13 20:47 SW 6020A U 0.0150 mg/L 3 10/24/13 10:22 10/25/13 20:47 SW 6020A  U 0.0100 mg/L 1 10/24/13 10:22 10/25/13 21:46 SW 6010B  0.460 0.00500 mg/L 1 10/24/13 10:22 10/25/13 21:46 SW 6010B  0.197 0.00500 mg/L 1 10/24/13 10:22 10/25/13 21:46 SW 6010B  U 0.00500 mg/L 1 10/24/13 10:22 10/25/13 21:46 SW 6010B

Client Sample ID:

14

10/22/13 13:04

Lab ID: 13J0481-14

Matrix: Solid

**Collection Date:** Analyses Result Limit Qual Units DF Date Prepared Date Analyzed Method Analyst **TCLP Metals by ICP-MS** U 0.000600 3 10/24/13 10:22 10/25/13 20:55 SW 6020A JTC \*Mercury mg/L 10/24/13 10:22 10/25/13 20:55 SW 6020A JTC U 0.0150 mg/L 3 \*Selenium JTC U 0.0150 10/24/13 10:22 10/25/13 20:55 SW 6020A \*Silver mg/L 3 TCLP Metals by ICP \*Arsenic U 0.0100 mg/L 10/24/13 10:22 10/25/13 21:51 SW 6010B JHN \*Barium 0.213 0.00500 mg/L 10/24/13 10:22 10/25/13 21:51 SW 6010B JHN 0.00500 mg/L 10/24/13 10:22 10/25/13 21:51 SW 6010B JHN \*Cadmium 0.201 SW 6010B JHN 0.00500 mg/L 10/24/13 10:22 10/25/13 21:51 \*Chromium U JHN 0.00500 10/24/13 10:22 10/25/13 21:51 SW 6010B \*Lead mg/L 0.864

Page 6 of 9

### LABORATORY RESULTS

Client:

Flint Hills Resources

Project:

Waste Pile Analysis Peru, IL

Lab Order: 13J0481

### **Notes and Definitions**

- S Spike recovery outside acceptance limits.
- Е Result above quantitation range.
- NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

# Chain of Custody Record

Prairie Analytical Systems, Incomponate to

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680 Central/Southern IL Office - Phone (217) 414-7762 - Facsimile (217) 223-7922

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Client	FlutHIISRe	Scolet S		✓ Analysi	s and/or Method Regi	legfor!	Reporting
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City, State, Zip Code	Per IL	61354					191_
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MIN C CHOUNCE	juisDed Ay	Date	Time	Received By		5 - 5035 Kit.  Date   Time	X - Other (Specify)  Method of Shipment
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8 of				Date Required:	- 11	S 3 4 4 Yes No	
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FHRPRU002069

## **Chain of Custody Record**

Prairie Analytical Systems, Incorponate D

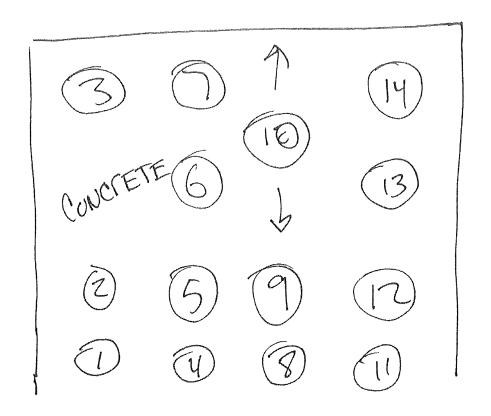
Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680 Central/Southern IL Office - Phone (217) 414-7762 - Facsimile (217) 223-7922

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FHRPRU002070

PAS COC Rev. 3



FlintHills WASTEPILE Field Wates 10/22

2585.20



Tuesday, November 12, 2013

Michael Schmidt

Flint Hills Resources 501 Brunner Street Peru, IL 61354

TEL: (815) 224-5451

FAX: NA

RE: 27833

Sediment + Soil collected from Fipe (Cadmium Project)

Prairie Analytical Systems, Inc. received 1 sample(s) on 11/5/2013 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted,

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

Michael D. Brophy

Project Manager

Certifications:

NELAP/NELAC - IL #100323

1210 Capital Airport Drive 9114 Virginia Road Suite #112 Springfield, IL 62707

1.217.753.1148

1.217.753.1152 Fax

Lake in the Hills, IL 60156

1.847.651.2604

1.847.458.0538 Fax

Page 1 of 4

Prairie Analytical Systems, Inc.

Date: 11/12/2013

LABO	)RAT	ORY	RES	ULTS

Client:

Flint Hills Resources

Project:

Client Sample ID:

27833

27833

Lab Order: 13K0081

Lab ID: 13K0081-01 Matrix: Solid

Result	Limit							
	Littill	Quat	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
U	0.250		mg/L	50	11/12/13 9:03	11/12/13 13:51	SW 6020A	JTC
U	0.500		mg/L	50	11/12/13 9:03	11/12/13 13:51	SW 6020A	JTC
U	0.100		mg/L	50	11/12/13 9:03	11/12/13 13:51	SW 6020A	JTC
ប	0.250		mg/L	50	11/12/13 9:03	11/12/13 13:51	SW 6020A	JTC
U	0.250		mg/L	50	11/12/13 9:03	11/12/13 13:51	SW 6020A	JTC
U	0.0100		mg/L	50	11/12/13 9:03	11/12/13 13:51	SW 6020A	JTC
U	0.250		mg/L	50	11/12/13 9:03	11/12/13 13:51	SW 6020A	JTC
U	0.250		mg/L	50	11/12/13 9:03	11/12/13 13:51	SW 6020A	JTC
	บ บ บ บ บ	U 0.500 U 0.100 U 0.250 U 0.250 U 0.0100 U 0.250	U 0.500 U 0.100 U 0.250 U 0.250 U 0.0100 U 0.250	U 0.500 mg/L U 0.100 mg/L U 0.250 mg/L U 0.250 mg/L U 0.0100 mg/L U 0.250 mg/L	U 0.500 mg/L 50 U 0.100 mg/L 50 U 0.250 mg/L 50 U 0.250 mg/L 50 U 0.250 mg/L 50 U 0.0100 mg/L 50 U 0.250 mg/L 50	U 0.500 mg/L 50 11/12/13 9:03 U 0.100 mg/L 50 11/12/13 9:03 U 0.250 mg/L 50 11/12/13 9:03 U 0.250 mg/L 50 11/12/13 9:03 U 0.250 mg/L 50 11/12/13 9:03 U 0.0100 mg/L 50 11/12/13 9:03 U 0.250 mg/L 50 11/12/13 9:03	U 0.500 mg/L 50 11/12/13 9:03 11/12/13 13:51 U 0.100 mg/L 50 11/12/13 9:03 11/12/13 13:51 U 0.250 mg/L 50 11/12/13 9:03 11/12/13 13:51 U 0.250 mg/L 50 11/12/13 9:03 11/12/13 13:51 U 0.0100 mg/L 50 11/12/13 9:03 11/12/13 13:51 U 0.250 mg/L 50 11/12/13 9:03 11/12/13 13:51 U 0.250 mg/L 50 11/12/13 9:03 11/12/13 13:51	U 0.500 mg/L 50 11/12/13 9:03 11/12/13 13:51 SW 6020A U 0.100 mg/L 50 11/12/13 9:03 11/12/13 13:51 SW 6020A U 0.250 mg/L 50 11/12/13 9:03 11/12/13 13:51 SW 6020A U 0.250 mg/L 50 11/12/13 9:03 11/12/13 13:51 SW 6020A U 0.0100 mg/L 50 11/12/13 9:03 11/12/13 13:51 SW 6020A U 0.0100 mg/L 50 11/12/13 9:03 11/12/13 13:51 SW 6020A U 0.250 mg/L 50 11/12/13 9:03 11/12/13 13:51 SW 6020A

Prairie Analytical Systems, Inc.

Date: 11/12/2013

14.	LABORATORY RESULTS		
Flint Hills Resources 27833		Lab Order:	13K0081

Notes and Definitions

 $\mathbf{p}_1$ Pass

Client:

Project:

\* NELAC certified compound.

ΰ Analyte not detected (i.e. less than RL or MDL).

## Chain of Custody Record

Central IL - 1219 Capital Airport Drive - Springfield, IL 162707-8490. - Phone (217) 753-1148 - Facsimile (217) 753-1149 - Chicago IL Office - 2014 Viginia Rd., Ste 112 - Lake in the FSIs, IL 60158 - Phone (847) 551-2604 - Pacsimile (847) 458-8569 Central/Southern IL Office - Phone (217) 434-7762 - Facsimile (217) 223-7928



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Page: 00002 *Validated*	ILLINOIS Environmental Protection Agency 2013 Hazardous Waste Report Form GM — Generation and Management
US EPA ID : ILD087154555 IL. EPA ID :	0990850005
SECTION 1. WASTE DESCRIPTION	
A. Waste Description: CONTAMINATED SOI	ILS .
B. EPA Hazardous Waste Code(s): D006	D008
C. Source Code : G31 D. Form C	ode: W301 Management Method:
E. Waste Minimization Code: X	
SECTION 2. QUANTITY GENERATED	:
A. UOM: 3. Pounds (lbs)	Density: 9.00 lb/gal.
B. Quantity Generated in Current Reporting Year:	2,290,458.0
SECTION 3: QUANTITY MANAGED O	
Did this location manage some or all of this waste in R recycling, or disposal units at this location? (DO NOT:	
On-Site Systeml :Management Method :(	Quantity managed on-site this year : 0.0
On-Site System2:Management Method :	Quantity managed on-site this year : 0.0
SECTION 4. OFF-SITE SHIPMENT	
A. Was any of this waste shipped off site this reporting	year? Y
SITE 1.	
B. U.S. EPA ID No. of facility waste was shipped	to: ILD000666206
C.Management method shipped to :	H132
D. Total quantity shipped in this reporting year:	2,290,458.0
SITE 2.	
B. U.S. EPA ID No. of facility waste was shipped	to:
C. Management method shipped to :	
D. Total quantity shipped in this reporting year :	0.0
SITE 3.	
B. U.S. EPA ID No. of facility waste was shipped	to:
C. Management method shipped to :	
D. Total quantity shipped in this reporting year :	0.0
SITE 4.	
B. U.S. EPA ID No. of facility waste was shipped	to:
C. Management method shipped to:	
D. Total quantity shipped in this reporting year :	0.0
SITE 5.	
B. U.S. EPA ID No. of facility waste was shipped	to:
C. Management method shipped to:	
D. Total quantity shipped in this reporting year :	0.0

COMMENTS: N